



Substitute for form 1449 A & B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Sheet	1	of	1	Application Number	09/980,020
				Confirmation Number	2987
				Filing Date	January 25, 2002
				First Named Inventor	Rainer MARTIN
				Art Unit	Not Assigned
				Examiner Name	Unknown
				Attorney Docket Number	Q67428

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US			
		US			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
Rab		Yariv Ephraim et al, "Speech Enhancement Using a Minimum Mean-Square Error Short-Time Spectral Amplitude Estimator", IEEE TRANSACTIONS ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, Vol. ASSP-32, No. 6, December 1984, pp. 1109-1121	
		David Malah et al, "Tracking Speech-Presence Uncertainty to Improve Speech Enhancement in Non-Stationary Noise Environments", IEEE INTERNATIONAL CONFERENCE ACOUSTICS, SPEECH AND SIGNAL PROCESSING, 1999.	
		Jae S. Lim, "Image Restoration by Short Space Spectral Subtraction", IEEE TRANSACTIONS ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, Vol. ASSP-28, No. 2, April 1980, pp. 191-197-	
		Til Aach et al, "Spectral Estimation Filters for Noise Reduction in X-Ray Fluoroscopy Imaging", PROC. EUSPICO, 1996, pp. 571-574	
		Eberhard Hansler, "The hands-free telephone problem: an annotated bibliography", SIGNAL PROCESSING 27, 1992, pp. 259-271	
		Eberhard Hansler, "The hands-free telephone problem: an annotated bibliography update", ANN. TELECOMMUN. 49, 7-8, 1994, pp. 360-367	
		S. Gustafsson et al, "Combined acoustic echo control and noise reduction for hands-free telephony", SIGNAL PROCESSING 64 (1998) pp. 21-32	

Examiner Signature	Laura D. Jui	Date Considered	12-11-02
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.